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SUBJECT: SO-192 VISCOUS PROCESSED DUPLICATE POSITIVES

REF A 6116 6 NOV 70
 B 6294 2 DEC 70
 C 6412 22 DEC 70

7 JAN 71 22

1. PHOTOINTERPRETERS: EIGHTEEN PIS COMPARED SO-192 SAMPLES TO NORMAL 2430 DUPES. SEVENTEEN PREFERRED THE SO-192 SAMPLES TO NORMAL 2430 DUPES. SEVENTEEN PREFERRED THE SO-192 AND GENERALLY AGREED THAT:

A. THERE WAS NO DIFFERENCE IN INFORMATION CONTENT.
 B. SO-912 WAS "CLEARER AND BRIGHTER" AND MORE PLEASING TO LOOK AT.

2. BAR TARGET READINGS: TWELVE CORN TARGET IMAGES WERE AVAILABLE FOR COMPARISON. AVERAGE FROM THREE READERS PROVIDED EQUAL RESOLUTION READINGS ON EIGHT TARGETS WITH SO-192 READING ONE BAR GROUP BETTER ON EACH OF REMAINING FOUR TARGETS.

3. HIGH MAGNIFICATION: COMPARISON AT 1000X MAGNIFICATION SHOWS SO-192 EMULSION MAINTAINED MORE SIGNAL THAN 2430, ESPECIALLY IN LOW CONTRAST AREAS.

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4. MENSURATION: RESULTS OF A PHOTOGRAMMETRIC STUDY EMPLOYING 2430 AND SO-192 SAMPLES SHOWED NO SIGNIFICANT DIFFERENCE IN POINTING ACCURACY; HOWEVER, SO-192 WAS PREFERRED BECAUSE IT WAS MORE PLEASING TO LOOK AT.

5. DENSITY ANALYSIS: MICRODENSITY TRACES OF BAR TARGETS DID NOT SHOW ANY DIFFERENCE IN RESOLUTION. THE TARGET DENSITIES ON SO-192 SAMPLES (0.25 TO 1.50) WERE LOWER THAN THOSE ON 2430 FRAMES (0.60 TO 1.85). ALTHOUGH THE DELTA DENSITY IS THE SAME (1.25) THE RANGE OF TRANSMISSION IS GREATER ON SO-192 SAMPLES GIVING THEM A HIGHER CONTRAST APPEARANCE WHICH WAS PREFERRED BY MOST READERS. GP-1

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